

MINUTES OF THE 66TH MEETING
Milwaukee County Automated Mapping and Land Information System
Steering Committee

Date: Tuesday, February 7, 2006
Time: 9:00 a.m.
Place: Milwaukee County City Campus
2711 W. Wells Street
Room 349
Milwaukee, Wisconsin 53208

Members Present

Kurt W. Bauer, Chairman	Milwaukee County Surveyor
John L. LaFave	Milwaukee County Register of Deeds
John C. Place	Manager Maps and Records, We Energies
Gregory G. High	Director, Architecture, Engineering and Environmental Services Division, Milwaukee County Department of Transportation and Public Works, representing the Superintendent, Milwaukee County Department of Transportation and Public Works
John M. Bennett	City Engineer, City of Franklin, representing the Intergovernmental Coordinating Council of Milwaukee County
Donald R. Nehmer	Capital Program Business Manager, Milwaukee Metropolitan Sewerage District
Nancy A. Olson	Enterprise Information Manager, Information and Technology Management Division, City of Milwaukee
Emily Van Dunk	Budget Unit Manager, Administration & Fiscal Affairs, Milwaukee County Department of Administrative Services, representing Linda J. Seemeyer, Director, Milwaukee County Department of Administrative Services

Members Absent

Donald L. Coe	Supervisor, Facilities Location, Customer Operations, We Energies
Kevin S. Anderson	Design Area Manager, Milwaukee Metro North SBC Ameritech-Wisconsin

Guests and Staff Present

Marcia Lindholm	City of Milwaukee DPW Division of Infrastructure Services
Gary Drent	Fiscal and Budget Manager, Milwaukee County, A,E & E DTPW
Kathleen A. Bach	Milwaukee County Register of Deeds Office
Kevin Bruhn	Milwaukee County DTPW
Kevin White	MCAMLIS Project Manager, Milwaukee County DTPW

Note: This meeting was recorded and the audio is downloadable in Microsoft Windows Media Player .wpm format. To assist the listener, items discussed in the minutes are referenced to a timestamp (hr:min:sec) to aid in locating the related topic on the audio file.

I. Roll Call (0:0:27)

The sixty-sixth meeting of the Milwaukee County Automated Mapping and Land Information System (MCAMLIS) Steering Committee was called to order by Chairman Bauer at 9:00 a.m. Roll Call was taken by circulating an attendance signature sheet and a quorum was declared present.

Chairman Kurt Bauer, (0:0:37): opened meeting by asking the committee to take up Report Item IV(f).

IV(f). REPORT BY WE ENERGIES STAFF ON THE STATUS OF THE DIGGER'S HOTLINE PROTOTYPE STUDY,(0:1:21)

A presentation by We Energies consultant HRG Technology Group: Reinhard(Hardy) G. Meishner (Presenting) and David Baraniak (President), accompanied by Dean Peterson, Velocitie Integration Inc.

The following is a summary of the discussion and findings of the Diggers Hotline prototype study. It was reported that in the interviews conducted by HRG and subsequent analysis, that Diggers Hotline requires an electronic version of the updated street centerline file. The data format and method of delivery to Diggers Hotline was discussed by the committee. As part of the discussion, it was determined that the MCAMLIS Street Centerline file, if updated and distributed regularly, would be adequate for Diggers Hotline purposes. It was also determined that plat approval and recording procedures in-place today do not provide for access to electronic files for purposes of updating the information in timely fashion. Furthermore, the majority of locate requests submitted to Digger's Hotline arrive very early when the subdivision is being developed. Thus, making this a critical time for Diggers Hotline to provide service.

Because there is no set procedure for updating street centerline information in the Digger's Hotline database the HRG Technology Group with approval by the Steering Committee proceeded with an investigation and a prototype to focus on the following:

- (1) Investigate the integration of MCAMLIS database with Digger's Hotline,
- (2) Develop a new process for distributing new land developments/subdivision plats to Diggers Hotline and utilities using Portable Document Format(PDF) files
- (3) Develop software that could automate the updating of land information for Digger's Hotline.
- (4) Use information from all the utilities, Diggers Hotline, City of Milwaukee and the Southeastern Wisconsin Regional Planning Commission to determine how well all the different land systems aligned with each other.

- (5) Use the City of Franklin as the pilot test area.

HRG set up interviews with Digger's Hotline, the Utilities, Surveyors and City of Milwaukee to obtain the land information requirements for each user.

Digger's Hotline Findings:

- Municipality name
- Centerlines
- Intersection node points (defined by street segment beginning and ending locations)
- Street names
- Address ranges (desirable)

Connections between street segments is not a requirement. This allows that MCAMLIS data will support Digger's Hotline requirements directly and without modification

Utilities Findings:

- Lot numbers, dimensions and subdivision names
- Street names
- Centerlines

Utility requirements are more extensive than Digger's Hotline. Utilities would still require CAD drawings, because these drawings include all the vector information, which is needed to update their information. For this reason, it was determined that the prototype concept using PDF files would not work although the utilities expressed an interest in having PDF files to use as a reference for future mapping.

Surveyors Findings:

R. A. Smith

Ruerkert and Mielke

National Survey

Harold Schuler, Executive Director-Wisconsin County Surveyor Association

HRG solicited input from surveyor's regarding establishment of a standard data format for every subdivision to be used as part of the plat approval process. It was found that this approach, although feasible, would be costly.

J.Bennett: questioned who would pay any cost associated with implementing the standard. He submitted that a solution may be to simply require that CAD data be submitted 'as is' to the process. He stated that regardless, of any new standard, that all the surveyors are using a CAD system of some sort and that it would be sufficient if the surveyors or municipalities provided this data in 'whatever' format it currently is maintained.

R.Meishner et al: agreed but stated that there would be a problem using the data directly. The ideal is to look for a completely automated process and avoid manual intervention.

J.Place: stated that in his experience, a single translator is not going to be the answer because every organization approaches it's CAD data differently.

J.Bennett: further commented, that when given the CAD data in it's original form, his operators could enter a large

subdivision, in about 1 hr. Granted, there would be additional work related to tax-key information. Similarly, if the County could get the CAD data, MCAMLIS maps would be updated as soon as the plat was approved.

R.Meishner: expressed concern that this may not be appropriate when considering the entire State of Wisconsin. He maintained that the effort could become 'labor intensive' under those circumstances. He noted that the surveyors agreed that the basic information that Digger's Hotline requires for updating their database would not be difficult for them to provide and to put into a format that would allow for and facilitate the automation for Diggers Hotline and eliminate a manual process to make those conversions.

City of Milwaukee Findings:

The City agreed with the surveyors that establishing and adopting a comprehensive data standard format would be costly. The City could not agree to the proposed standards but agreed that it would not be difficult and, if needed, an ordinance could be passed to collect the information from developers. The City also has an interest in PDF files for other applications

K.Bauer: expressed concern that there may be municipalities that are not capable of providing the data to Diggers in an electronic format and that there was considerable variability among the municipalities in this regard, not to mention the complexity of controlling multiple municipal plat approval processes versus simpler alternatives.

J.Bennett: asked if HRG had looked at MCAMLIS to be responsible to do this?

R.Meishner: replied that Paul Mika (Deputy Register of Deeds) confirmed that all plats require county approval although the county is not in a position to require changes to standards.

J.LaFave: stated that any changes to the plat recording process would need to go through the State Legislature.

M.Lindholm: added, the City follows the same rules as the County except that the City does have city ordinances that are a little bit stricter. For example our plans don't go to the State to get approved, we can approve them in our office. So we do all the calculations, the closures and we work with the surveyors to get that product correct.

J.Bennett: stated that the County Treasurer has to sign the plat. This may be the tool, just like they do with compliance surveys in many communities. There is nothing in the State Statute saying that you have to have compliance surveys, but the one thing that almost all financial institutions require is a certification on special assessments. The County could do this through the Treasurer's Office if the County Board would adopt and basically state that before the County Treasurer signs the plat that the electronic version must be furnished.

K.Bauer: allowed that another approach may be to have the MCAMLIS system provide the centerline data uniformly in Milwaukee County or maybe in cooperation with the City. This would provide for the data immediately and you wouldn't have as much complexity.

R.Meishner: submitted, Diggers is looking to get the information as quickly as possible and there is nothing more timely than having each municipality forward that information to Diggers Hotline. Otherwise, the delay might be two or three months.

Committee discussion: seeking definition of preliminary v. approved v. recorded plat

J.Bennett et al: offered, Plat approval can precede plat recording by as much as 6 months. Preliminary plats are 'at best' an incomplete version of the 'final' recorded plat, are best described as a 'work in progress' and, although 'timely', are not sufficiently complete for Diggers Hotline purposes. Approved plats have met with municipal approval, represent the 'final' plat version prior to recording, are 'timely' and are sufficiently complete for Diggers Hotline purposes. Recorded plats are an approved plat that has been submitted to the County or the City of Milwaukee for purposes of recording, are not always 'timely' and, although complete, are not deemed a suitable improvement for Diggers Hotline purposes.

R.Meishner: stated, a delay occurs between when the municipality approves the plat and when MCAMLIS enters it into the system. This is the gap we want to fill, because that's when the majority of the locate request in many instances are coming into Diggers Hotline.

J.Bennett: exemplified that in (Franklin) you can't sell lots or get building permits until all the infrastructure is in except the final lift of asphalt. Developers, have to get their plats approved before starting to put in the infrastructure. We put the plat in our system as soon as the council approves the plat. It goes into our GIS system, because that's the time we need it, that's when the building permits are being taken out. Permits are not issued unless it's in our system.

R.Meishner: agreed that this wording should be incorporated into the report. That's the gap we're trying to close, because Diggers Hotline needs information when the infrastructure starts going in and there are many locate requests going through.

K.White: added that the county has the capacity to enter an 'approved plat' if it were provided. If we did this, it would speed up the recording since it could then be entered prior to official recording.

K.Bauer: cautioned the members to be careful with regard to use of preliminary plat information. It is his opinion that any use of this information prior to local approval is not appropriate.

K.White: added that the county would not have an objection to getting approved plats and putting them into what is now referred to as preliminary. We'd do this ahead of time as opposed to waiting until it's officially to be recorded. Instead of having 19 municipalities trying to report things to Diggers Hotline it could come to MCAMLIS. The translation work becomes a by-product of the street centerline file we are already maintaining.

J.Bennett: suggested that if the communities, by ordinance, require an electronic copy be submitted as part of the approval process, then as soon as the plat is approved, the CAD drawing could be submitted to MCAMLIS.

K.Bauer: again, cautioned the members to be aware of the variability of the technical abilities present among the municipalities as they consider their final recommendation.

R.Meishner: clarified that from a processing standpoint, instead of having all of the municipalities send information to Diggers Hotline the information would 1st come to MCAMLIS. MCAMLIS could provide a filter for those plats that are not in the correct format or if the developer or surveyor doesn't have the tools for providing it in an electronic format. MCAMLIS could then provide updates to Diggers Hotline in the format spelled out as part of this process.

J.Place: asked if it would be enough to have the municipalities send a copy to MCAMLIS and a copy to Diggers at the same time?

K.Bauer: replied that the surveyors would not provide reformatted data unless they get paid. If MCAMLIS gets it from the municipalities, then as soon as the common council or plan commission acts to approve the plat, the data can be given to Diggers Hotline immediately.

J.Bennett: added that Kathy has to do this anyway for MCAMLIS so why not have her do it early on and try to establish some mechanism that gets the electronic files. They can probably be even emailed. All they're going to need to do is get the CAD file for each new subdivision to Kathy when it's approved by the council.

K.White: asked if there could be a special fee for paper versus electronic filing?

K.Bauer: stated that all surveyors have electronic files, and they can submit that 'as is' without putting it in a uniform format. So the alternative that's being discussed here is that at the time the plat is approved by the approving agency it would go to MCAMLIS and at that point MCAMLIS would provide centerline data to Diggers Hotline.

R.Meishner: asked if there could be an advantage or an opportunity to have the surveyors submit a subset of information just for Diggers Hotline? Instead of MCAMLIS going through and doing that for everyone. We could require Ruerkert & Mielke or R.A. Smith or whatever to supply that information. I think it's a good idea to have it all come to one location and then over to Diggers Hotline but do we also want to pursue having the surveyors provide that information in a standard format

J.Bennett: answered that from the communities point of view its not a requirement.

R.Meishner: clarified his understanding that the only requirement from the municipalities standpoint is to email the drawings to Kathy. She will pull off the information that Diggers Hotline requires. He offered that he could change the proposed alternative that has been discussed at the table here this morning. He also stated, that there is still an issue regarding having standards for the subdivision plats that are submitted by the surveyors. Adding that, it's not only a MCAMLIS issue, because the utilities benefit from it, right now We Energies does a lot of work to update their

own land information system. They're doing the same thing at the county. It's not a utility benefit, its everyone's benefit and the surveyors themselves agreed, although they thought it would be costly for them internally to go through and make adjustments. If there is an incentive to standardize and Kevin you raised a good issue, if there is a five to one penalty for not submitting it I think that would open up some eyes right away.

J.LaFave: provided that there is no flexibility to change the existing recording fee structure. There may be some other way the county can impose a fee.

K.White: submitted that standardized or not, he thought that it was necessary to reenter everything anyway, because it is necessary to check it for accuracy.

K.Bauer: stated that the idea of a standard for surveyors is an entirely different topic, and separate from the topic at hand, which is getting the information to Diggers Hotline.

R.Meishner: restated that the recommendation being discussed, is to adjust the process so that the information comes through Kathy as opposed to going directly to Diggers.

K.White: asked about the rest of the state? And added that he knows this was funded by MCAMLIS but is there a "Kathy" in every county that can do what we're talking about?

K.Bauer: concluded that this is a MCAMLIS project, a Milwaukee County project. What happens in the rest of the state outside of this region is an other issue. Start with Milwaukee County, get the process in place and then you can expand it to the other counties.

R.Meishner: asked do we still pursue with Diggers Hotline the issue of having the surveyors at least submit the basic information using a standard format? Or do we shoot it over to Kathy and have her submit it to Diggers Hotline?

N.Olson: commenting, that the City of Milwaukee will not relinquish centerline maintenance duties because many departments are using the street centerline i.e. for the police department response, CADD, fire, our municipal utilities and infrastructure, so there has to be some discussion about this recommendation as it relates to the City of Milwaukee.

K.Bauer: asked if the City of Milwaukee would be willing to do what has been loosely talked about doing for the County but within the city?

N.Olson: stated that the City of Milwaukee does not put any approved data in the street centerline file until its recorded, but there would be an opportunity for this to be done.

K.Bauer: suggested that the committee send the report back to HRG to make the revisions. Either that or accept the report as submitted. If the committee sends the report back to HRG then in addition to making the changes relative to 18 municipalities for Kathy, the committee, will need to talk to the City of Milwaukee and make arrangements with them.

**J.Bennett (1:05:03), Motion: To have report returned to HRG for revisions
Olson Second; Motion carried, unanimous**

II. SPECIAL ORDER OF BUSINESS, (1:07:13)

Election of 2006 MCAMLIS Steering Committee Officers

J.Bennett (1:07:36), Nominated: Dr. Bauer as Chairman, Don Nehmer; MMSD as Vice Chairman. The recommendation of the nominating committee was unanimous.

K.Bauer: stated that he would not accept the nomination unless staff provides for the meeting minutes as in the past.

K.White: replied that he is following the same minutes standard as the Milwaukee County Board. Those meetings are recorded on tape and only the actions are included in the minutes. He submitted that the difference is that there is a taped record instead of a transcribed one.

G.High: asked if Dr. Bauer requires to be provided a transcribed record.

K.Bauer: replied that he wanted to see a set of minutes as in the past. Where items are recorded and printed. Summary minutes would catch the essence of the discussion here and the reasons for the decisions that are made.

J.Bennett (1:12:15), Motion: The county provide summary minutes, similar to what SEWRPC did in past years.

Second: Nehmer, Motion carried, unanimous

J.Bennett (1:13:50), Motion: The nominations be closed and recast a unanimous ballot for Dr. Bauer.

Second: High, Motion carried, Unanimous

III. CONSIDERATION OF THE MINUTES OF THE 65TH STEERING COMMITTEE MEETING HELD NOVEMBER 1ST, 2005, (1:14:48)

LaFave (1:15:07), Motion: To adopt minutes

Second: Bennett, Motion carried, Bauer no

IV. REPORTS (1:15:26)

1V(a). REPORT BY MCAMLIS PROJECT STAFF ON THE STATUS OF STREET ADDRESS AND CADASTRAL MAP MAINTENANCE, (1:15:37)

K.Bauer (1:17:10): by consensus the reports are accepted and place on file and attach copies to the minutes.

IV(b). REPORT BY MCAMLIS PROJECT STAFF ON THE STATUS OF THE CADASTRAL DATABASE MIGRATION PROJECT, (1:17:26)

K.White: reported that all the data is in the new geo database format. The Northern half of the county is complete. We're about 80% complete in the south. When complete we intend to print the tax listing maps and go through them for a final check for any oversights or annotation changes that need to be updated. At the next meeting you will be able to examine map samples and see what they look like. I think you will be surprised when comparing the hand drawn maps versus and the new ones.

K.Bauer: added that, when we get to it on the agenda, he'd like to discuss an opportunity regarding the Greater Milwaukee Committee, the Public Policy Forum and, the utilities, about bringing a regional approach to economic development. He stated that they are considering a one-stop center to geographic land information and it is important that we get Milwaukee County and the other six counties to support this.

K.White: provided that Mr. McDougall from SEWRPC and he talked about linking up the county's cadastral at least the portion that we maintain and provide it to the SEWRPC regional information server. Racine's County cadastral information is now loaded there and its something we're going to pursue.

K.Bauer (1:21:20): by consensus the report is placed on file.

IV(c). REPORT BY SEWRPC STAFF ON THE STATUS OF MCAMLIS

TOPGRAPHIC MAPPING PROJECT, (1:21:32)

K.Bauer: reported that the area photography has been completed for the entire county. There are '9 X 9' negatives and contact prints for the mapping available. The ortho-photography is about 97% complete by the consultant, 53% quality checked and approved. There are dates by which the ortho-photography will be expected to be completed, MCAMLIS will then make the files available. Some maps are available now.

G.High: stated that with the scrutiny of the MCAMLIS contracts by the County Board, he has been informed that the county has not received the DBE status on this contract and he needs to find out what the current status is, and what kind of participation. He added that the Steering Committee is overseeing these contracts and we need to see the resolution of contract issues and reassure ourselves that we're in compliance.

K.Bauer: replied that he will have Phil call Greg and see what has to be done before the next meeting.

G.High: added that there is some lack of information on the Diggers Hotline contract as well and this requires contract administration as well. He stated that he would have the MCAMLIS project manager make some inquiries with the invoice to make sure we get the additional information on how they spent the money and a little narrative instead of bullets on an invoice.

K.White: stated that HRG was to use a subcontractor and that they included in their reply to DBE participation that they were using some proprietary software. This appears not to have happened.

G.High: The invoices need more detail on how they spent the money.

K.Bauer (1:28:17): Report attached to the minutes as a permanent record.

IV(d). REPORT BY SEWRPC STAFF ON THE STATUS OF SEWRPC REGIONAL WATER STUDY, (1:28:21)

K.Bauer: reported that the study organization has been completed the Advisory Committee has held three meetings to date, they have approved the City's representative Terry Lewison. The committee approved Chapter 1, Introduction and background of the final report. Chapter 2 the inventory of the existing state of the study area goes into everything from geology, land use to demographics and economic activity etc. Chapter 5, objectives, principles and standards was approved at the last meeting. Next consideration will be Chapter 3, a detailed inventory of the existing water supply systems their configuration and capacity. Chapter 4 will be the legal considerations by a law firm. The work is proceeding on schedule.

E.Van Dunk: asked who on the Advisory Committee would be connected to the County Board?

K.Bauer: replied that the Milwaukee County representative is Mr. Torres

E.Van Dunk: stated that it's likely that the 'board' will want more information.

K.Bauer: submitted that the advisory committee members were largely technical and that there are no elected officials on it at this point although there are environmental groups that are on the committee.

E.Van Dunk: replied that she would make sure to ask George to talk to Phil more often.

G.High: asked about the website contents? And does Mr. Bauer have that information?

K.Bauer: replied, for those interested to use the SEWRPC website to obtain the notice of meetings and agendas as well.

K.Bauer (1:32:10): by consensus the report is approved and placed on file

IV(e). REPORT BY SEWRPC STAFF ON THE STATUS OF MCAMLIS

FLOOD LAND MAPPING PROJECT, (1:32:14)

K.Bauer: reported that Phase I is to be completed by 12/31/06.

K.Bauer (1:35:49): By consensus the report is approved and placed on file.

K.Bauer: reported progress on Phase II

K.Bauer (1:39:00): By consensus the report be placed on file

IV(g). REPORT SEWRPC STAFF ON 2005 COUNTY SURVEYOR'S ACTIVITIES, (1:39:02)

K.Bauer: reported activities to date.

G.High: extended thanks to SEWRPC, and the individuals involved in the county surveyor's activity for doing such a fine job over the years and continuing to provide good cost effective service.

K.Bauer (1:41:53): By consensus the report be placed on file

IV(h). REPORT OF MILWAUKEE COUNTY DAS STAFF ON MCAMLIS BUDGET, (1:41:55)

E.VanDunk: provided an explanation of two reports; recap and detail. The recap report, noted that between the last meeting and now, some projects for the \$1 fee costing about \$250,000 left an unrestricted balance of \$115,000 at the end of 2005. Regarding the \$4 fee, the balance was much higher than projected. Also, some of the expenditures didn't come in as high, so we're about \$250,000 more to the good. Right now the balance is close to \$400,000. This is because some expenditures for 2005 are lower and noted that year end does not technically close until another eight weeks. Since these are all un-audited, she recommended waiting to see where year end comes out and not approve much until this summer, although leaving that decision up to the Steering Committee

K.Bauer: stated that Mr. Bennett has raised the issue at past meetings that the committee should consider maintaining kind of a "rainy day" fund, keeping a minimum balance. Perhaps you might want to consider that between now and the next meeting when you'll have a final report on last years results and then maybe if we could ask you to make some recommendations as to what should be kept in case the revenue changes. I don't know, Mr. LaFave how's your finding on recording documents?

J.LaFave: replied that he does not expect recordings to increase and that they will either remain level or possibly decrease.

K.Bauer: suggested that the committee consider withholding action on the "rainy day" fund until the final report from last year can be provided at the next meeting and get a recommendation from DAS.

E.VanDunk: submitted that 10% would be about \$110,00 of annual fees and \$250,000 would cover a years worth of administration. That may be where the projects could continue, but no new projects would be brought on. She offered to look at different scenarios but allowed that in the end it was going to be a Steering Committee comfort level. Although, she could present this if the committee wants to make a final decision.

K.Bauer: the minutes should compliment the staff, it's been very good in terms of knowing what's going on, excellent work.

K.Bauer (1:47:51): By consensus the report be placed on file

V. OLD BUSINESS (1:48:05)

V(a). DISCUSSION OF THE PROCEDURE TO BE FOLLOWED FOR DISTRIBUTION OF THE 2005 DIGITAL ORTHOPHOTOGRAPHY ACQUIRED THROUGH THE TOPOGRAPHIC MAPPING PROJECT, (1:48:13)

K.White: offered that this item is being taken up because of the way the regional area photo program was funded this year. Milwaukee County acquired the ortho-photography but SEWRPC usually distributes the data on a cost of reproduction type basis. Because of this, Staff recommends that the Steering Committee authorizes SEWRPC to continue to distribute our ortho-photography.

J.Bennett: proposed that MCAMLIS pay for the cost of reproduction for the communities and all the members that belong to MCAMLIS.

K.White : stated that he currently provides MCAMLIS data (including the orthos) to municipalities at no charge

N.Olson: asked if it was known who goes to SEWRPC for these? Are they developers?

K.Bauer: replied everybody, you'd be surprised who wants a photo of their neighborhood for whatever reason. Elected officials use them to go ring door bells, developers the University of Wisconsin-Milwaukee. If you look at the commission's annual report there are literally 10's of thousands of these photographs distributed in the region. He added that they're a very popular sort of thing for lay people.

N.Olson: inquired that if there is no revenue generated when we distribute them why don't we distribute them free on the web where there's no cost to anyone?

K.White: agreed that this could be done. He stated that he has noticed how many people ask for them because SEWRPC is now telling people to talk to the county. This has created quite a few calls from people. He thinks eventually the county could distribute that data via the web but if someone wants a hard copy for whatever reason he would be happy if SEWRPC was making CD's and not the county. The money that is generated from those sales on SEWRPC side goes back into a fund that is used to pay for the next ortho-photography program so it's not really a profit on SEWRPC side. They're using it to fund the program in the future.

**J.Bennett (1:52:55), Motion: Approve staff recommendation to authorize SEWRPC to distribute the 2005 Milwaukee County ortho-photography.
Second: High, Motion carried, unanimous**

V(b). CONSIDERATION OF A PROPOSAL BY CITY OF MILWAUKEE FOR MAP MAINTENANCE SERVICES OF MCAMLIS CADESTAL DATA HOLDINGS RESIDING WITHIN THE CITY LIMITS, (1:52:58)

N.Olson: re-introduced a proposed agreement discussed at the last meeting. The agreement states the scope of work as maintaining the cadastral maps and the street address database in the newly adopted Milwaukee County Geo Database format. This will get the City and the County to be the same format. The cost associated with this work; which, is comparable to what the Board is providing for Kathy(ROD) and the duties are the same as Kathy but within the City boundaries. In the earlier discussion, the board requested some clarification on the financial situation with the MCAMLIS project, before moving on this agreement.

K.Bauer: submitted that it's very important that we have a single database for MCAMLIS.

J.LaFave: asked if the City of Milwaukee would be doing the same work (as Kathy) for the City of Milwaukee territory and would the results of this work be easily merged? Would you have MCAMLIS mapping for the whole county?

N.Olson: replied that that was correct. She stated that it's very important that the new database format the county has adopted with the MCAMLIS maps be adopted at the city and continues to be maintained that way, so that the two pieces will fit together seamlessly.

LaFave: asking if the county would have the City of Milwaukee and MCAMLIS mapping in its database. If so Kathy would have I and your people would have it. For example, if someone requested a MCAMLIS map, as they do now, and this request is located in the City of Milwaukee, would Kathy be able to provide them?

K.White: added that he has discussed initiatives between the city and the county regarding sharing along the lines of what is being done with the main website. This arrangement supports a website where the city and the county share the cost. Nancy and I have talked about doing something similar so the City's data and other MCAMLIS data can be together seamlessly. It may be a dated copy (of the City's Data) but when it's out there on the central server people can access it via the web. In addition, SEWRPC could link that up as a regional land information server data source.

K.Bauer: submitted that, in the past, the committee has been unsuccessful in its attempts to get a single location for this in the county. It is his opinion that this may be the best alternative solution possible and it's very important that we have this finally together in one place.

J.Bennett: stated that he would like to see some reporting before MCAMLIS approves the next contract. He felt that the committee needs to know that it's getting appropriate value. He believes that it would be easier to see what is required after the year is completed and the city would report to MCAMLIS on the amount of hours spent doing this work. MCAMLIS would use the report to determine approvals for the next year.

K.Bauer: replied, with all due respect to Mr. Bennett's point, that it seemed to him that what the committee really wanted was to be sure that the maps have been kept current for the \$74,000, which, in his opinion, was not unreasonable. He would expect a report like Kathy gives at every meeting that says here is the status of Milwaukee, here's the dates for which our maps have been updated in the county Geo Database.

J.Bennett: submitted, that this would be the first time MCAMLIS is paying another community to do something.

K.White: stated that, the city is the only one that can do this work. Alternatively, it could be contracted to a consultant, but in the end, the consultant would have to go to the city and research all the changes.

J.Bennett: added that he understood but would like to see some sort of reporting so he could assure the other 18 municipalities that MCAMLIS is getting its monies worth on this.

G.High: asked that as a comparison when MCAMLIS was contracting SEWRPC to provide Kathy's time, what was the dollar amount of that contract for a year?

K.Bauer: replied that he could not remember but it was something similar to this amount and why he didn't think this is an unreasonable amount.

J.Bennett: stated that MCAMLIS needs some way of measuring performance e.g., hours spent.

N.Olson: agreed to report at the same level that the county is required to report.

K.Bach: added that, in her experience, knowing the data that the city has out there that needs to be updated, it may take a person fulltime just to keep up. That's exactly what she is doing, so it's very comparable to her position and the City isn't asking for anything beyond that.

K.Bauer: added for comparison, the area of Milwaukee County is about 225 sq mi and the city is roughly 100 sq mi so it should be about the same.

J.Bennett: realizes that but added that the City of Franklin is updating all its maps itself. The taxpayers are paying for this because Franklin has the type of system it has and just can't back stuff in. Franklin is paying its employee with City of Franklin funds so there is some inconsistency here.

K.Bauer: responded that this was by choice. He offered that Franklin could obtain the maps from the county similar to other communities that are receiving that service from the county free.

J.LaFave: reiterated that MCAMLIS would get similar reports from the City as we get from County. Therefore if there is a dissatisfaction with those reports or a need for additional information at that time then it could be pursued.

K.White: offered that the MCAMLIS project manager would be overseeing this contract similar to any other contract. He stated that the PM should be looking out for the benefit of the board and report back the status. As an example,

Kathy's contract is included in the same contract that is approved for the project management. If Kathy decides not to work you're going to hold the PM responsible for the mapping not being done. So there is already a level of checks and balance.

E.VanDunk: added that there's also the invoicing system, the county's billing would provide a trail. It's the same thing the county does internally with labor distribution and has done with SEWRPC.

J.Bennett: asked if the city would have a number of parcels converted so MCAMLIS would know what's going on so we can do some comparison? He is concerned about the ability to go to the 18 municipalities and to report on updating MCAMLIS data for the City of Milwaukee.

E.VanDunk: stated that she thought that it was important to use that phrase "it's updating MCAMLIS data for the city" versus we're giving the City something that's for the city alone. In her opinion, it would be important to have that distinction for the county board, that this is for MCAMLIS.

K.Bauer: submitted that he thought the committee could state that there is an invoicing system within DAS that will monitor and allow comparison when we get a years experience, at the end of the year let's see what the experience is. He added that this is a comparable cost to when SEWRPC was doing this.

J.LaFave: observed that with adopting this agreement, the City will not receive this amount immediately.

E.VanDunk: provided that it looked like it would be quarterly, possibly the 1st invoice wouldn't happen until September.

J.LaFave: stated that when discussions were complete, he would like to move adoption of this agreement. He added, for the record, that revenue and expenditures for MCAMLIS do not come from taxpayers. These come from recording fees not property taxes.

D.Nehmer: asked how Nancy expected this to move forward? In other words do you have a lot of information that hasn't been put into the MCAMLIS standard? Once we've gotten where we need to be, how do you see it being maintained? In terms of level of effort.

N.Olson: replied that she would take the city data and convert it into the Geo Database format that has just been completed for the balance of the county. She expects that there would be a position, at the city, that updates changes similar to what Kathy does at the county.

D.Nehmer: observed that going forward it seems that there is a level of effort to get us where we need to be and then we have a different level of effort maybe to maintain where we need to be. Is this something once we're converted we need a full-time effort to maintain?

N.Olson: replied, that to be true.

G.High: asked that since MCAMLIS already paid the city once to do this, that its already converted right? The cadastral maps were already sent to MCAMLIS once, this is to maintain that so the database doesn't go out of date, correct?

N.Olson: provided that the MCAMLIS standard at that time was quarter section format in Microstation and that's the way it was delivered and that was the agreement of the Steering Committee. Since that time there has been improvements in the technology and the Steering Committee has adopted this Geo Database format. As a result, we now have to move the MCAMLIS cadastral maps from the way they were delivered to MCAMLIS into the Geo Database world. There would definitely be some additional effort up front to make the conversion that the county has just gone through.

K.Bauer: added that this really needs to be done.

J.Bennett: agreed.

D.Nehmer: asked if there were protocols?

K.White: replied that there is a database design protocol that Nancy would be following. The county and the city are currently working together on a street centerline file database design protocol. That's going to work with what the City of Milwaukee's needs and then with what the County's needs, hopefully that will encompass enough that the

municipalities can use it. The base assumption is that what we create will be usable by every community in their 911 system.

D.Nehmer: added that there may be an issue that may have to be addressed, he would prefer to see some sort of schedule for the delivery of this information, versus a status, in the agreement. At our last meeting we talked about when we have a proposal such as this, for the committee, that we have some kind of fiscal analysis done for that proposal. He would like to see the affect this may have on the overall fiscal situation?

E.VanDunk: outlined what effect that this would have on the projected \$400,000 year end balance at the end of 2006. She believes this balance will be higher because there are some things that haven't worked through the system, but if nothing happens and the committee doesn't take on anymore projects that's where she would anticipate MCAMLIS being. Again revenues were a bit higher in 2005 then what were projected. Expenditures are not as high as projected and she has built in a conservative adjustment to this so actual value might still go higher. The last time the committee saw that number it was \$127,000 and she expects there has been a change of at least \$250,000 added.

D.Nehmer: asked if there is a formal analysis that is done for presentations to the County? For example the sewerage district has fiscal notes on one page.

E.VanDunk: replied yes, the county does prepare fiscal notes for the board. Projects go through fiscal and can be reviewed in advance in a fiscal report. That may be something this committee may want to consider. Right now it's been rather simplistic if I did a fiscal note I would say this is a \$74,000 plus commitment. That would drop your bottom line down \$75,000 from the \$398,000. So that would be the fiscal effect because this is a known contract it doesn't have any other costs, I wouldn't have to do what would be a long-term actuary impact on retirees or something to that effect which we have to do on most. But I do think that's not a bad idea to attach a note on to things as you're going forward as a reminder of the ongoing fiscal impacts.

K.Bauer: stated that with Ms. VanDunk's fiscal analysis she has in effect earmarked funds for the topo mapping. What she's reporting is unrestricted funds over and beyond any contractual commitments that we know about. \$75,000 to me is not a big part of this surplus that she's forecasting.

E.VanDunk: replied that this number is fluid now and she didn't know when the next time MCAMLIS is meeting. Clearly there's the feeling that if the committee wants to wait for the next report, which will be the end of period, although I don't know if that number is going to swing that much.

D.Nehmer: added that his issue is not really related to this specific request of \$75,000. It's more of an ongoing reporting to the committee in terms of people coming to the committee with a request we should get some sort of formal analysis as to how it impacts our ability to pay for that request.

E.VanDunk: replied that the committee can clearly do that, requests can pass through fiscal before they comes here as part of the decision making process.

K.White: observed that the next project manager or anything that happens while he was still here should have a date on it which you have to give me a report by this date or it doesn't go on the agenda. He added that he didn't get the Diggers Hotline report until last week Tuesday and sent it out. Dates could be handled on the project manager side of the committee. You submit everything you want considered to me on this date or save it for the next time we meet.

E.VanDunk: submitted that for County Board considerations, the fiscal staff gets 10 days before it goes to the board. They do their own review of it and they sign-off and put together the fiscal impact. Then it goes before the board and the board decides based on the fiscal note whether they want to take on this commitment. That could be something this organization may decide to do. She added that she didn't believe anything like this has been done on any of the previous notes she's seen.

**J.LaFave (2:21:39), Motion: to adopt agreement with the City of Milwaukee
Second: High, Motion carried, unanimous**

**V(c). CONSIDERATION OF POSSIBLE MCAMLIS FUNDING FOR
PURCHASE OF COUNTY-WIDE LICENSE OF PICTOMETRY'S
OBLIQUE AERIAL PHOTOGRAPHY, (2:24:33)**

K.Bauer: submitted that in his opinion, this would constitute some duplication with respect to the ongoing aerial photography projects in the area and, he understood that with the \$150,000 price they're quoting is based on getting an update every two years (or \$75,000 per year). He further stated that he was aware that Tom (Patterson) thinks there's not much use for this especially for the MCAMLIS program and probably not for the Public Works people at all. The guys that seem to want it are the Police and Fire Chiefs and the Sheriff and of course if they can get it free they will want it. It seemed to him that if the committee considers this, that at least think about requiring some sort of matching program because of course they're going to say sure give it to me if MCAMLIS pays for it. Under those circumstances why wouldn't they want it? but that may change if you tell them that they would have to contribute 50% to 75%.

J.Bennett (2:27:14), Motion: to table further discussion until the next meeting
Second: Van Dunk, Motion carried, unanimous

VI. NEW BUSINESS (2:27:44)

K.White : There was no new business as of the time we sent the agenda out.

VII. CORRESPONDENCE (2:27:52)

K.White: No correspondence

VIII. DATE, TIME AND PLACE OF NEXT MEETING (2:28:38)

K.White: suggested the meeting wait a month or two. It might workout better to let county find my replacement and then get on with it.

K.Bauer: Next meeting will be at the call of the Chair.

IX. ADJOURNMENT (2:29:34)

J.Bennett (2:29:40), Motion: to adjourn
Second: High, Motion carried, unanimous

Note: On 4/3/06, William Shaw assumed the duties of MCAMLIS Project Manager. The Chairman has been informed of Mr. Shaw taking over these responsibilities for Mr. Kevin White.

Respectfully submitted,

William C. Shaw
 MCAMLIS Project Manager

R.21 E.

R.22 E.

MCAMLIS Cadastral Maintenance Status

February 2006 Status



Current as of December 31, 2005

T.8 N.

T.7 N.

T.6 N.

T.5 N.

R.21 E.

R.22 E.

R.23 E.

Brown Deer

River Hills

Bayside

Fox Point

Glendale

Whitefish Bay

Shorewood

Wauwatosa

Milwaukee

West Milwaukee

West Allis

St. Francis

Greenfield

Hales Corners

Cudahy

Greendale

South Milwaukee

Franklin

Oak Creek



Source: MCAMLIS Project Manager

R.21 E.

R.22 E.

MCAMLIS County Address Database

February 2006 Status



December 31, 2005



January 1, 2005

T.8 N.

T.7 N.

T.6 N.

T.5 N.

R.21 E.

R.22 E.

R.23 E.

Brown Deer

River Hills

Bayside

Fox Point

Glendale

Whitefish Bay

Shorewood

Watwatosa

Milwaukee

West Milwaukee

West Allie

St. Francis

Greenfield

Hales Corners

Cudahy

Greendale

South Milwaukee

Franklin

Oak Creek



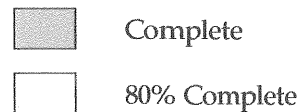
Source: MCAMLIS Project Manager

R.21 E.

R.22 E.

MCAMLIS Database Migration Status

February 2006 Status



T.8 N.

T.7 N.

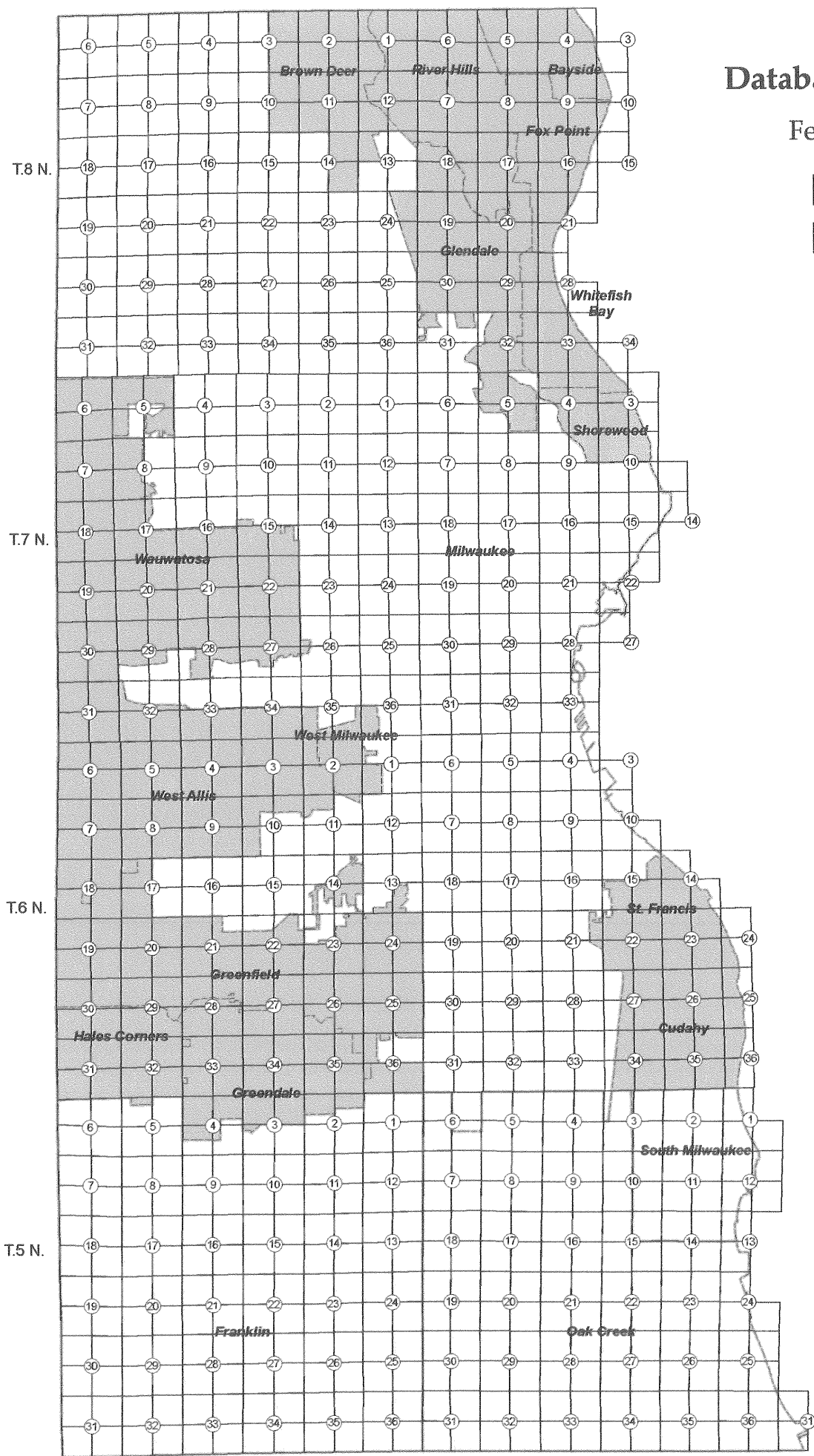
T.6 N.

T.5 N.

R.21 E.

R.22 E.

R.23 E.



Source: MCAMLIS Project Manager

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MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: SEWRPC Staff

DATE: January 6, 2006

SUBJECT: STATUS OF THE MCAMLIS 2005-2006 TOPOGRAPHIC MAPPING PROJECT

The Agreement between the MCAMLIS Steering Committee and the SEWRPC governing this project was executed on December 22, 2004, and work on this project has been underway since January 2005.

Aerial photography acquired in 2004 for Township 8 North, Ranges 21 East and 22 East, was processed during the first calendar quarter of 2005. All aerial photography required for the balance of Milwaukee County was obtained prior to April 15, 2005, and the processing of this aerial photography has also been completed.

As of December 31, 2005, about 97 percent of the digital orthophotography files had been delivered to the SEWRPC for its review. About 53 percent of these files had been reviewed and accepted by the SEWRPC staff as meeting the specifications for this work, and these files had been delivered to Milwaukee County (see attached map). These files are currently available through the County for distribution and use.

The digital topographic mapping portion of this project is also underway. The mapping for Township 8 North, Range 21 East and Township 8 North, Range 22 East, is currently about 85 percent complete and is expected to be available on a work flow basis beginning about April 1, 2006. The digital topographic mapping for Township 7 North, Range 21 East and Township 7 North, Range 22 East, is expected to be available on a work flow basis beginning about July 1, 2006. The digital topographic mapping for the remaining portions of the County (Township 5 North, Range 21 East, Township 5 North, Range 22 East and Township 5 North, Range 23 East; and Township 6 North, Range 21 East and Township 6 North, Range 22 East) is scheduled to begin compilation during early 2006 and is expected to be available on a work flow basis beginning about January 1, 2007. The Agreement between the MCAMLIS Steering Committee and the SEWRPC calls for this portion of the work to be completed by June 30, 2007.

* * * * *

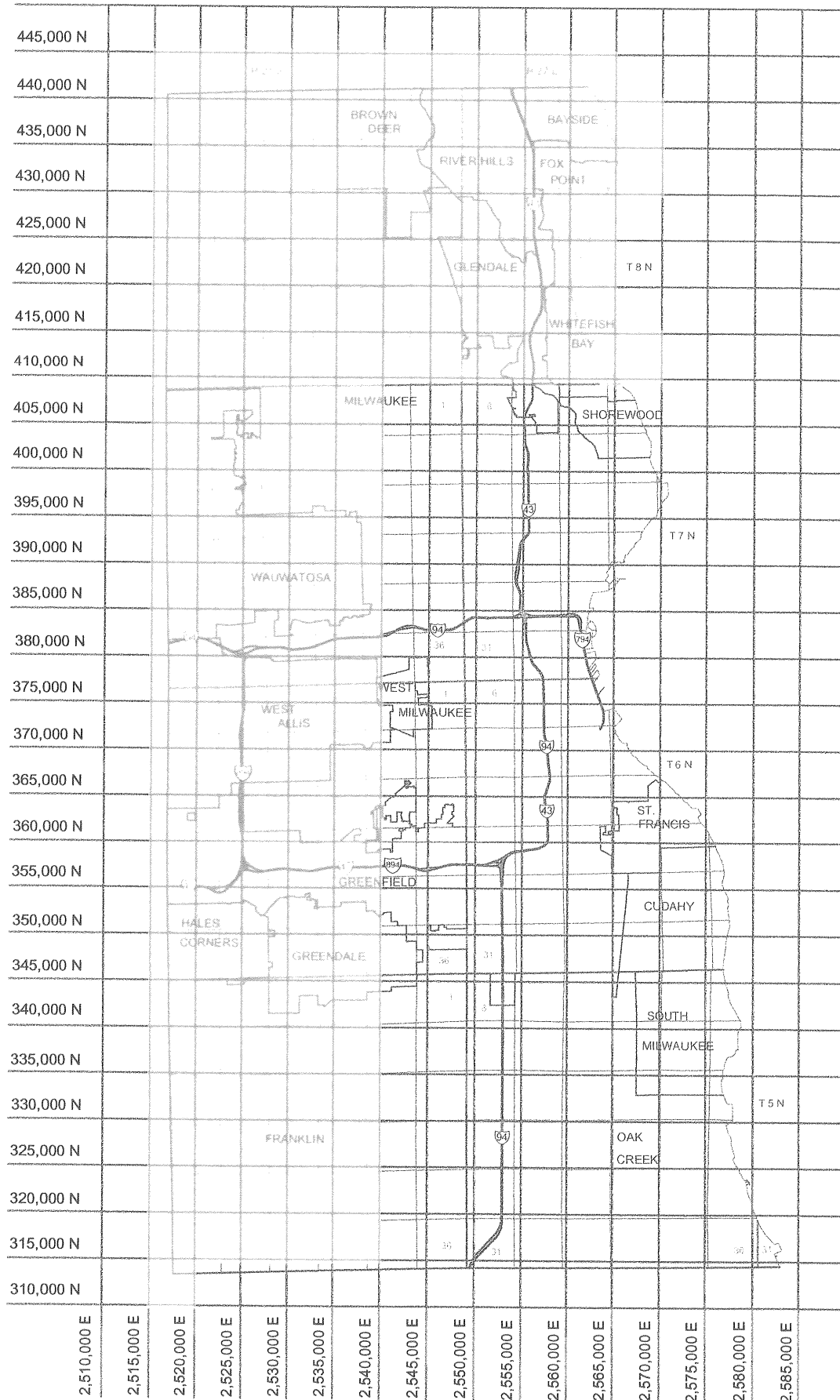
Enclosure

TDP/lgh/mlh

01/04/06

#114427 V1 - Status Of MCAMLIS Mapping Project 12/05

2005 Orthophotography File Deliveries: Status as of December 31, 2005



Orthophotography File Provided
to MCAMLIS Project Manager

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MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: SEWRPC Staff

DATE: January 3, 2006

**SUBJECT: STATUS REPORT NO. 13 ON PHASE I OF THE
MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT**

This memorandum sets forth the progress made on Phase I of the Milwaukee County Floodland Mapping project from October 1, 2005 through December 31, 2005. That project phase includes all streams that are to be studied in the County, with the exception of those in the Root River watershed. This status report addresses project progress in the following three major areas:

- Data Acquisition
- Hydrologic and Hydraulic Modeling
- Floodland Map Preparation

Overall, the Phase I portion of the project is about 88 percent complete. Progress is summarized in the attached Exhibit 1 and is graphically summarized on the map attached hereto as Exhibit 2.

DATA ACQUISITION

During the period of October 1, 2005 through December 31, 2005, the following data acquisition activities were carried out:

- As indicated by Exhibit 1, data acquisition activities are substantially completed. When additional data needs are identified as work proceeds, the acquisition of the data is coordinated with the Milwaukee Metropolitan Sewerage District (MMSD), the Wisconsin Department of Natural Resources (WDNR), the Wisconsin Department of Transportation (WisDOT), and the pertinent communities.

HYDROLOGIC AND HYDRAULIC MODELING

During the reporting period, progress on hydrologic and hydraulic modeling for Phase I of the project included the following:

Milwaukee River Watershed

- The hydrologic and hydraulic modeling for Brown Deer Park Creek was completed.
- The hydrologic and hydraulic modeling for Beaver Creek was completed.

Fish Creek Subwatershed

- The hydrologic modeling of the Fish Creek subwatershed continued.

FLOODLAND MAP PREPARATION

Milwaukee River Watershed

- Preliminary draft floodplain boundaries were delineated along Brown Deer Park Creek for the 10-, 50-, 100-, and 500-year floods. A preliminary 100-year floodway boundary was also delineated.
- Work began on delineation of floodplain boundaries along Beaver Park Creek for the 10-, 50-, 100-, and 500-year floods.

PROPOSED SCHEDULE FOR COMPLETION OF PHASE I

The following factors have affected, and continue to affect, the schedule for completion of Phases I and II of this project:

- As maps have been completed, certain communities have requested that the Commission staff assist them in preparing detailed floodplain study submittals to the Wisconsin Department of Natural Resources (WDNR) and the Federal Emergency Management Agency (FEMA). Submittal of study information for agency approval is an important component of the floodland management process and it is the logical next step in the process of local adoption of the updated floodplains/floodways for zoning and Federal approval for flood insurance.

The MCAMLIS/ MMSD mapping project scope of work was developed based on the assumption that such adoption activities would take place after, not during, the MCAMLIS/MMSD project. Such submittals have been prepared for the Oak Creek watershed, at the request of the City of Oak Creek; the Lincoln Creek subwatershed, at the request of the City of Milwaukee; and the entire City of Brookfield. The Brookfield submittal was for stream reaches outside of the boundaries of the Milwaukee County mapping project, but it included Underwood Creek which flows through multiple communities and is also being addressed under the Milwaukee County project. Each of those submittals required a substantial commitment of staff time, and, because of specific deadlines set by the requesting communities, the Lincoln Creek and Brookfield submittals in 2004 required diverting four engineers from other projects for substantial periods of time. The new FEMA digital flood insurance rate map for Lincoln Creek, which is based on the study submittal described above and which reflects the MMSD stream restoration and flood control project, has now been issued, eliminating the Federal flood insurance requirement for about 2,000 properties.

- Because of other important new regional planning projects and longstanding commitments to provide review services for County governments, it has been necessary to assign engineering staff to those projects, reducing their availability for work on the floodplain mapping project. Such projects include the regional water quality management plan update (RWQMPU), analyses and evaluation of the MMSD Milwaukee County Grounds detention basin project as requested by Milwaukee County, hydraulic and scour analyses for new bridge designs which are done for the

Exhibit 1

STATUS OF MCAMLIS PHASE I MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT: DECEMBER 31, 2005

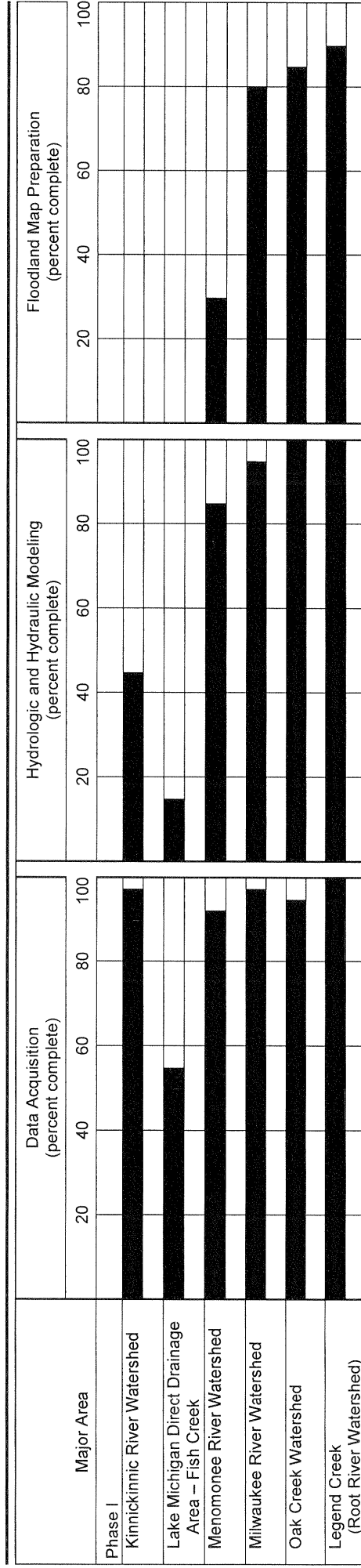
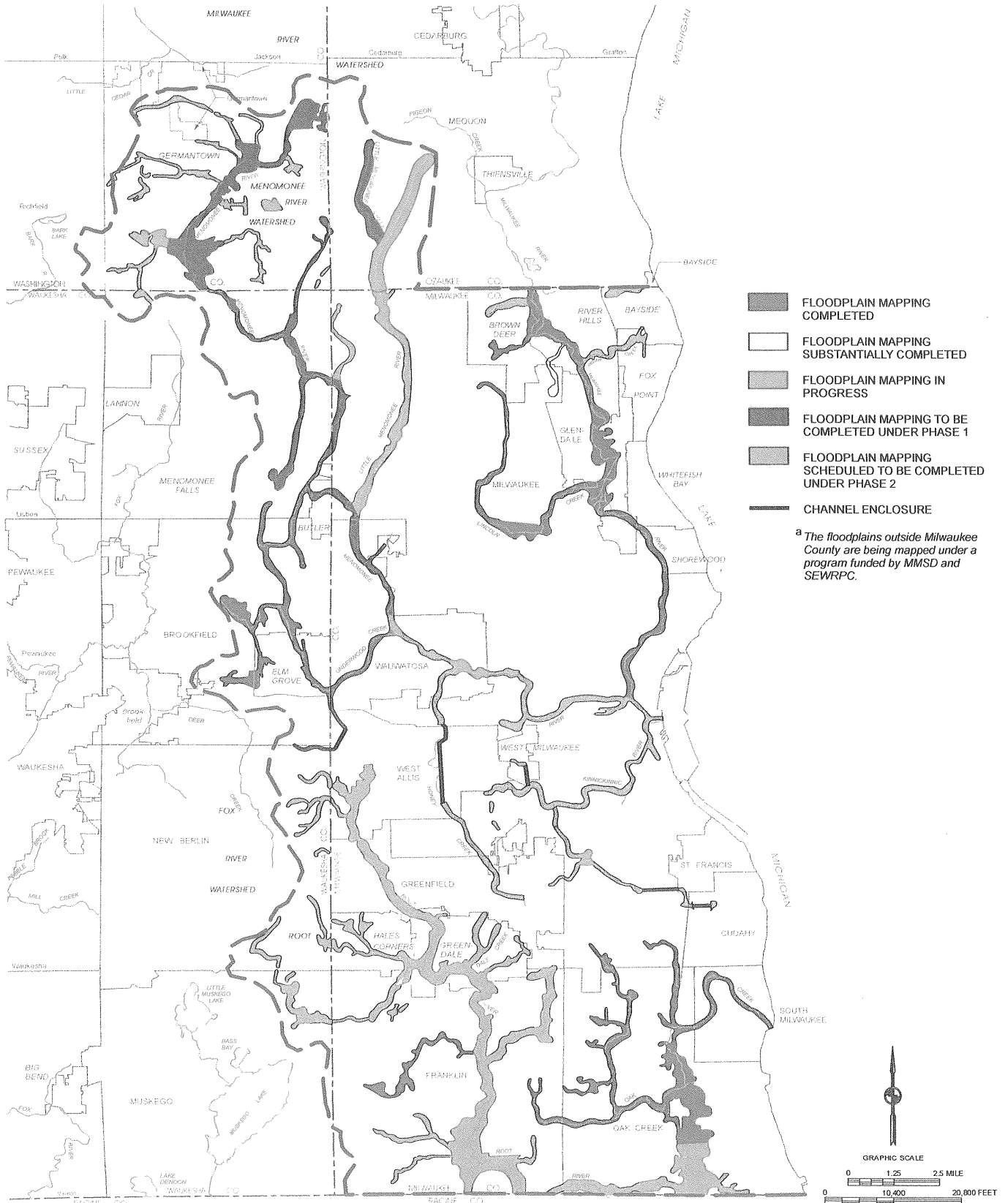


Exhibit 2

STATUS OF FLOODPLAIN MAPPING IN MILWAUKEE COUNTY AND IN MENOMONEE AND ROOT RIVER WATERSHEDS OUTSIDE MILWAUKEE COUNTY^a DECEMBER 31, 2005



Source: SEWRPC.

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MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: SEWRPC Staff

DATE: January 3, 2006

**SUBJECT: STATUS REPORT NO. 5 ON PHASE II OF THE MILWAUKEE COUNTY
FLOODLAND MAPPING PROJECT**

This memorandum sets forth the progress made on Phase II of the Milwaukee County Floodland Mapping project from October 1, 2005, through December 31, 2005. That project phase includes the streams that are to be studied in the County in the Root River watershed except for Legend Creek, which was studied under Phase I. In general, status reports will address project progress in the following three major areas and they will also identify major issues that have arisen.

- Data Acquisition
- Hydrologic and Hydraulic Modeling
- Floodland Map Preparation

The modeling and map preparation stages of the project have not yet begun. Overall, the Phase II portion of the project is about 5 percent complete. Progress is summarized in the attached Exhibits 1 and 2. During the reporting period there was no work done on data acquisition, hydrologic and hydraulic modeling, or floodland map preparation.

PROPOSED SCHEDULE FOR COMPLETION OF PHASE II

The following factors have affected, and are continuing to affect, the schedule for completion of Phases I and II of this project:

- As maps have been completed, certain communities have requested that the Commission staff assist them in preparing detailed floodplain study submittals to the Wisconsin Department of Natural Resources (WDNR) and the Federal Emergency Management Agency (FEMA). Submittal of study information for agency approval is an important component of the floodland management process and it is the logical next step in the process of local adoption of the updated floodplains/floodways for zoning and Federal approval for flood insurance.

The MCAMLIS/MMSD mapping project scope of work was developed based on the assumption that such adoption activities would take place after, not during, the MCAMLIS/MMSD project. Such submittals have been prepared for the Oak Creek watershed, at the request of the City of Oak Creek; the Lincoln Creek subwatershed, at the request of the City of Milwaukee; and the entire City of Brookfield. The Brookfield submittal was for stream reaches outside of the boundaries of the Milwaukee County mapping project, but it included Underwood Creek which flows through multiple communities and is also being addressed under the Milwaukee County project. Each of those submittals required a substantial commitment of staff time, and, because of specific deadlines set by the requesting communities, the Lincoln Creek and Brookfield submittals in 2004 required diverting four engineers from other projects for substantial periods of time. The new FEMA digital flood insurance rate map for Lincoln Creek, which is based on the study submittal described above and which reflects the MMSD stream restoration and flood control project, has now been issued, eliminating the Federal flood insurance requirement for about 2,000 properties.

- Because of other important new regional planning projects and longstanding commitments to provide review services for County governments, it has been necessary to assign engineering staff to those projects, reducing their availability for work on the floodplain mapping project. Such projects include the regional water quality management plan update (RWQMPU), analyses and evaluation of the MMSD Milwaukee County Grounds detention basin project as requested by Milwaukee County, hydraulic and scour analyses for new bridge designs which are done for the City of Milwaukee, and stormwater and/or floodland management reviews that are done for Kenosha, Racine, and Waukesha Counties.

Some of the hydrologic model development work being done under the RWQMPU will be utilized in the floodland project. However, significant reallocation of SEWRPC engineering staff from other projects to the RWQMPU began in the fourth quarter of 2003 and continues to the present. That reallocation, coupled with the loss of one engineering staff position based on budget considerations has significantly affected the SEWRPC staff's ability to maintain the level of staffing on the MCAMLIS project which is necessary to meet the previously-envisioned project schedule.

- From 2001 through 2004, the SEWRPC staff coordinated with WDNR and FEMA to obtain consensus on acceptable criteria for continuous simulation hydrologic studies, such as those being used for many of the streams in the MCAMLIS/MMSD floodland mapping project area. That coordination has now reached a successful resolution, with agreement by WDNR, FEMA, and the SEWRPC staff on a sound set of guidelines. The SEWRPC staff was reluctant to expend MCAMLIS/MMSD floodplain mapping project resources on studies using continuous simulation hydrology until the technical criteria issues were resolved. Thus, for much of the four-year coordination period, specific work on continuous simulation hydrology was suspended. That suspension, coupled with the long time required to obtain agreement resulted in delay of the MCAMLIS/MMSD project.
- The main basis for Phases I and II of the floodplain mapping project is the hydrologic and hydraulic models that were developed by the MMSD and their consultants under Phases 1 and 2 of their watercourse system planning program. The MMSD models were developed for systems planning purposes and they are adequate for such purposes; however, they were not intended to be directly applicable for local zoning and Federal flood insurance purposes. The Commission staff has reviewed those models in detail and in many cases, we have found it necessary to obtain considerable additional information on hydraulic structures and to make significant, appropriate revisions to both the hydrologic and hydraulic models to bring them to Commission standards and the standards required for WDNR and FEMA approval.

In revising the schedule for completion of Phases I and II of the MCAMLIS/MMSD floodland mapping project, consideration was given to additional committed, or ongoing, projects, including a Milwaukee River main stem watercourse system planning project which is to be done for MMSD from mid-2006 through mid-2007. That project is an outgrowth of the MCAMLIS/MMSD floodland mapping project in that the hydraulic model developed under the MCAMLIS/MMSD project makes the Milwaukee River project possible.

Given the foregoing, it is now proposed to commence additional work on Phase II of the floodplain mapping immediately after completion of Phase I on December 31, 2006 and to complete Phase II work by June 31, 2008.

* * *

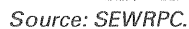
#114110 V1 - MCAMLIS PH II MILW CTY FLPL STATUS RPT 5
PCE/MGH/pk

Exhibit 1

STATUS OF MCAMLIS PHASE II MILWAUKEE COUNTY FLOODLAND MAPPING PROJECT: DECEMBER 31, 2005

Major Area	Data Acquisition (percent complete)					Hydrologic and Hydraulic Modeling (percent complete)					Floodland Map Preparation (percent complete)				
	20	40	60	80	100	20	40	60	80	100	20	40	60	80	100
Phase II															
Lake Michigan Coastal Flooding Areas						NA	NA	NA	NA	NA					
Root River Watershed															

**STATUS OF FLOODPLAIN MAPPING IN MILWAUKEE COUNTY AND IN
MENOMONEE AND ROOT RIVER WATERSHEDS OUTSIDE MILWAUKEE COUNTY:^a DECEMBER 31, 2005**



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MEMORANDUM

TO: MCAMLIS Steering Committee

FROM: Kurt W. Bauer, PE, RLS, AICP
Milwaukee County Surveyor

DATE: January 17, 2006

SUBJECT: MILWAUKEE COUNTY SURVEYOR ACTIVITIES—2005

This memorandum is intended to provide the MCAMLIS Steering Committee with a report on the work of the Milwaukee County Surveyor through December 2005. While the office and duties and functions of the County Surveyor are prescribed by Section 59.45 of the *Wisconsin Statutes*, in Milwaukee County the necessary work, pursuant to the direction of the County Board, is funded by document recording fees retained by the County pursuant to Section 59.43(2) of the *Wisconsin Statutes*. Since the MCAMLIS Steering Committee is charged by contract between Milwaukee County and the public and private utilities operating within the County with administering these retained recording fees, a report to the Committee on the activities of the County Surveyor is in order.

Within Milwaukee County, the U.S. Public Land Survey System has been combined with the State Plane Coordinate system and the National Geodetic Vertical Control System to provide the high order horizontal and vertical control survey network required for the preparation and maintenance of the MCAMLIS large-scale topographic and cadastral maps. Therefore, the work of the Milwaukee County Surveyor entails not only the maintenance of the U.S. Public Land Survey System as such, but also the maintenance of the MCAMLIS horizontal and vertical control survey network. As such, the work requires expertise in geodetic as well as plane surveying and in the legal aspects of property boundary determination.

Attachment 1 to this memorandum consists of a map of Milwaukee County on which are shown the location of all of the corners of the U.S. Public Land Survey System for which various types of perpetuation activities were undertaken in the calendar year 2005. These activities involved the replacement of section, quarter section, witness and meander corners which were reported as damaged, disturbed or destroyed by construction, or other activities or actions. The work involved the setting of new monuments, and, as necessary, the replacement of attendant witness marks and benchmarks. New records of U.S. Public Land Survey control station records—dossier sheets—were prepared for each corner concerned.

A copy of each of the new dossier sheets is provided in Attachment 2 to this memorandum. As indicated on Attachment 1, a total of 117 U.S. Public Land Survey corners were involved in the perpetuation activity from January 1, 2005, through December 31, 2005. In some cases, the perpetuation activity resulted in the determination of revised State Plane coordinate values for the corners and revised elevations for both the corners and the attendant benchmarks. In such cases, new control survey summary diagrams were prepared. A copy of each of the revised diagrams concerned is herewith provided as Attachment 3.

Pursuant to State Statutes, Registered Land Surveyors must provide to the County Surveyor for filing copies of all plats of surveys other than land subdivision plats and certified survey maps prepared for surveys conducted within the County. Through December 31, 2005, the County Surveyor received, indexed, and filed 2,246 records of land surveys completed within the County, bringing the total number of records of land surveys completed within the County, which have been filed with the County Surveyor since the inception of this work in 1984, to 41,010. The filed records are indexed to permit retrieval by name of the surveyor concerned, the property owner concerned, the date of the survey plat, the civil division, and the U.S. Public Land Survey one-quarter section within which the plat is located.

The County Surveyor also assists MCAMLIS in the preparation of contracts and specifications for large scale topographic and cadastral mapping and for special projects, such as the mapping of hazards to air navigation in the vicinity of General Mitchell International Airport.

KWB/nm

#114611 v1 - SURVEYOR REPORT TO MCAMLIS

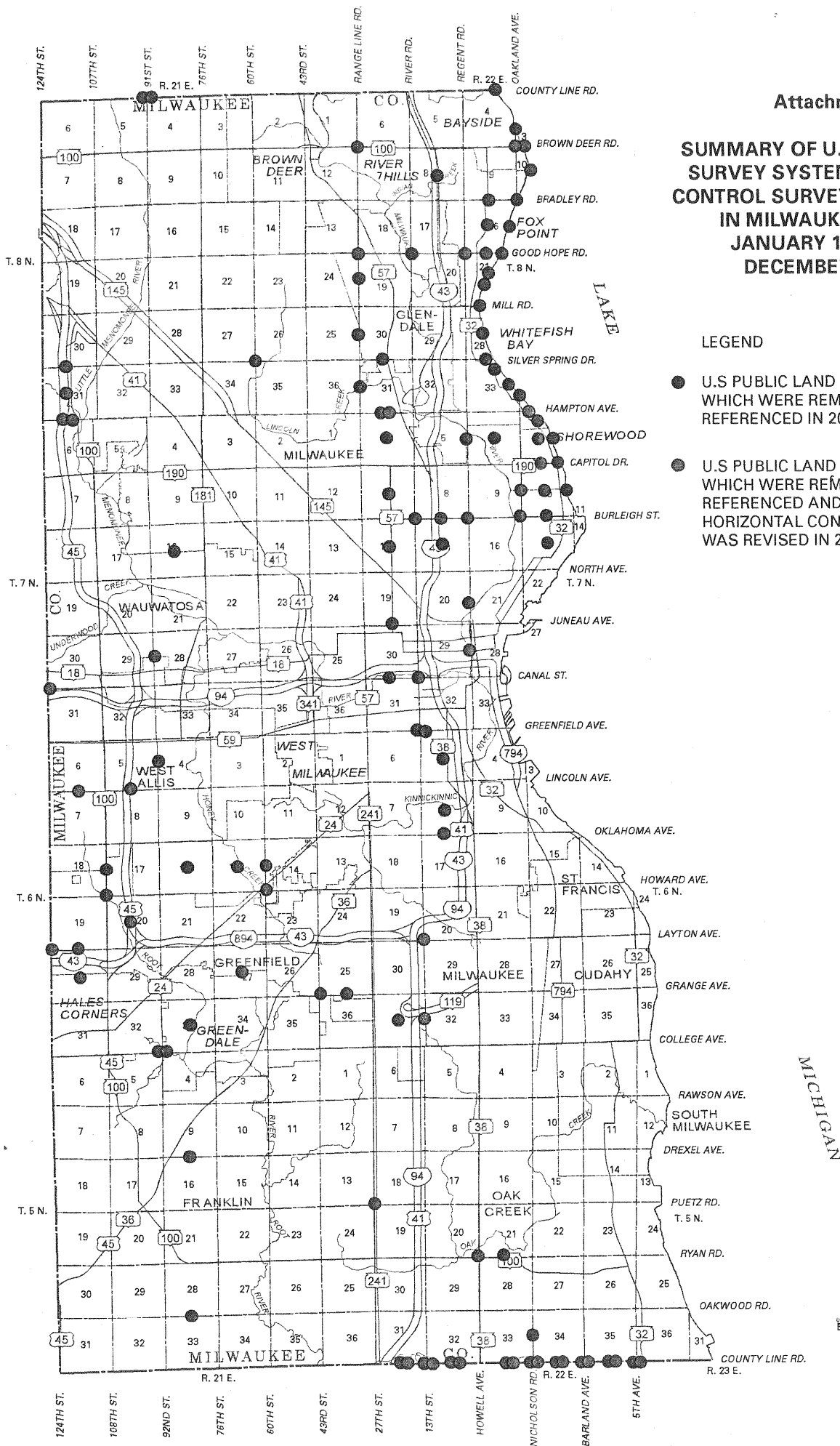
Attachments

Attachment 1

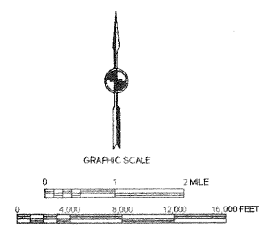
SUMMARY OF U.S. PUBLIC LAND SURVEY SYSTEM CORNER AND CONTROL SURVEY PERPETUATION IN MILWAUKEE COUNTY: JANUARY 1 THROUGH DECEMBER 31, 2005

LEGEND

- U.S. PUBLIC LAND SURVEY CORNERS WHICH WERE REMONUMENTED AND/OR REFERENCED IN 2005 (117)
- U.S. PUBLIC LAND SURVEY CORNERS WHICH WERE REMONUMENTED AND REFERENCED AND FOR WHICH HORIZONTAL CONTROL SURVEY DATA WAS REVISED IN 2005 (6)



MICHIGAN



Source: SEWRPC.

MCAMLIS Financial Report

12/31/04 Balance*	\$	4,342,835.74
2005 Activity**		(\$1,974,739.95)
2005 Projected Activity \$1.00		(\$356,000.00)
2005 Projected Activity \$4.00		(\$1,618,739.95)
12/31/05 Balance	\$	2,368,095.79
12/31/05 Projected Balance \$1.00	\$	601,002.00
12/31/05 Projected Balance \$4.00	\$	1,767,093.79

Outstanding Authorized Commitments (Non-Encumbered) 2006-Onward

\$4.00 Fee		
Topographic Mapping Project	\$	1,707,015.00
Cadastral Data Holdings	\$	75,000.00
SEWRPC Water Study	\$	87,262.00
Total	\$	1,869,277.00
Remaining Unrestricted Balance \$4.00 Fee***	\$	(102,183.21)

\$1.00 Fee

*Note: This money can be used for no other purpose than Register of Deeds projects. Any amount not expended in this manner cannot be used for other MCAMLIS tasks.

	\$	485,656.14
Remaining Unrestricted Balance \$1.00 Fee	\$	115,345.86

2006 Budget		
\$1.00 Fee	\$	220,600.00
\$4.00 Fee	\$	882,400.00
Other	\$	1,000.00
Total 2006 Budgeted Revenue	\$	1,104,000.00
\$4.00 Fee Revenue	\$	882,400.00
\$4.00 Budgeted Expenditures		
County Surveyor	\$	77,175.00
Other Expenditures (GIS, Fiscal, Project Management)	\$	305,000.00
Total Expenditures \$4.00 Fee	\$	382,175.00
Difference \$4.00 Fee Revenue and Budgeted Expenditures	\$	500,225.00
Unrestricted Balance 2005	\$	(102,183.21)
Difference \$4.00 Fee Revenue and Budgeted Expenditures	\$	398,041.79
\$1.00 Fee Revenue	\$	220,600.00
Budgeted Expenditures	\$	-
Unrestricted Balance 2005	\$	115,345.86
Difference \$1.00 Fee Revenue and Budgeted Expenditures	\$	335,945.86

*Note: Balance includes both \$1.00 and \$4.00 fee revenue; \$610,196 of the amount is from revenue collected for the \$1.00 fee.

**Note: The November projection assumed all expenditures will be at budgeted amounts in 2005. As of the close of period 12 expenditures were below projected by approximately \$600,000. In addition revenues were approximately \$80,000 higher than projected. There are still expenditures being booked until the close of year-end books at period 14-3. Owing to this uncertainty the final numbers will definitely change.

***Note: The amount of the reserve fund balance needs to be determined by committee, ten percent of current budgeted revenues appears to be appropriate. This would equal \$110,400 in 2006.

2005 Fiscal Report as of 2/2/2006--1923 MCAMLLIS

Rev / Exp (Revenue / Expense Name	Budget Amount	Actual Amount	Encumbrance	Actual + Encumbrance
2299 OTHER ST GRANTS & REIMBUR	\$79,000.00	\$78,288.88	\$0.00	\$78,288.88
ST GRANTS & REIMBURSEMENT	\$79,000.00	\$78,288.88	\$0.00	\$78,288.88
3237 RETAINED FEES -- \$4.00 PORTION	\$897,446.00	\$946,922.00	\$0.00	\$946,922.00
3238 RETAINED FEES -- \$1.00 PORTION	\$0.00	\$243,849.00	\$0.00	\$243,849.00
3239 GENERAL RECORDING FEES	\$0.00	\$16,756.98	\$0.00	\$16,756.98
RECORD & FILING FEES	\$897,446.00	\$1,207,527.98	\$0.00	\$1,207,527.98
4999 OTHER MISC REVENUE	\$0.00	\$2,025.00	\$0.00	\$2,025.00
OTHER REVENUE	\$0.00	\$2,025.00	\$0.00	\$2,025.00
Total Revenues*	\$976,446.00	\$1,287,841.86	\$0.00	\$4,050.00
5001 DIRECT LABOR CHARGED	\$0.00	\$107,849.91	\$0.00	\$107,849.91
PERSONAL SERVICES	\$0.00	\$107,849.91	\$0.00	\$107,849.91
6148 PROF. SERV-RECURRING OPER	\$2,722,761.00	\$1,731,264.14	\$432,363.02	\$2,163,627.16
6637 R/M COMPUTER EQUIP	\$24,000.00	\$214,937.95	\$51,500.00	\$266,437.95
6807 DP EDUCATION	\$5,000.00	\$850.00	\$0.00	\$850.00
6812 MEETINGS OTHER AUTH TRAVL	\$1,000.00	\$0.00	\$0.00	\$0.00
SERVICES	\$2,752,761.00	\$1,947,052.09	\$483,863.02	\$2,430,915.11
8558 COMPUTER EQUIPMENT-Rep>\$500	\$7,000.00	\$4,216.63	\$0.00	\$4,216.63
CAPITAL OUTLAYS	\$7,000.00	\$4,216.63	\$0.00	\$4,216.63
9706 PRO SERV DIV SERVICES	\$290,000.00	\$141,012.16	\$0.00	\$141,012.16
9742 DAS SERVICES	\$25,000.00	\$25,000.00	\$0.00	\$25,000.00
9799 OTHER COUNTY SERVICES	\$1,000.00	\$153,588.00	\$0.00	\$153,588.00
CROSSCHARGES**	\$316,000.00	\$319,600.16	\$0.00	\$319,600.16
Unreferenced/Anticipated Year-End	\$400,000.00	\$400,000.00	\$0.00	\$400,000.00
Total Expenses	\$3,075,761.00	\$2,778,718.79	\$483,863.02	\$3,262,581.81
Grand Totals***	(\$2,099,315.00)	(\$1,490,876.93)	(\$483,863.02)	(\$1,974,739.95)

*Note: In October report year-end projection was \$81,114 lower than what has been booked as of the end of period 12.

** Note: Amount includes \$206,589 in A&E Mgmt + \$25,000 for DAS-Fiscal + \$73,695 for Register of Deeds GIS Position + \$142,000 in charges for Fldlar Software that after further review may be moved to services objects before end of period 14-3.

**Note: Grand Total includes the transfer of \$1,931,390 from the reserve fund to cover expenditures for the Topographic Mapping Project. A total of \$3,252,710.

\$1.00 Fee

17-Oct-05

Regarding the \$1.00 WLIA fee, the following purchases have been made.

<u>Year-End 2004 \$1.00</u> <u>Revenue</u>	<u>Year-to-Date Fee</u> <u>Revenue</u>	<u>Total Revenue</u> <u>To Date</u>	<u>Authorized</u> <u>Expenditures***</u>	<u>Variance</u> <u>Authorized over</u> <u>Total Revenue**</u>
\$795,138.00	\$243,849.00	\$1,038,987.00	\$923,640.81	\$115,346.19

*Note: This money can be used for no other purpose than Register of Deeds projects. Any amount not expended in this manner cannot be used for other MCAMLIS tasks.

**Note: \$1,113,090 in expenditures against the \$1.00 fee have been authorized by the Steering Committee as of February 3, 2006. Some authorized projects have come in below budget. Additionally, \$175,000 authorization for disaster recovery was put on hold, taking this total to \$923,640. Total expenditures under the \$1.00 fee as of 2-03-06 total \$437,195.

***After Committee Approval of Authorization Release 11-1-05

\$551,289.00

\$1.00 Fee Authorized Projects as of November, 2005

Year Authorized	Project Description	Amount Authorized	Expenditures	Complete	Release Authorization	Amount Authorized after Release
2002	Large Format Scanner	\$13,090.00	\$13,090.00	Yes		\$13,090.00
2003	Improvements to Computer System	\$240,000.00	\$210,824.30	No		\$240,000.00
2003	Electronic Recording	\$45,000.00	\$30,550.81	Yes	\$14,449.19	\$30,550.81
2003	External Hard Drive/Two SNAP Servers	\$40,000.00	\$31,497.56	No		\$40,000.00
2003	Digital Images Chicago Title	\$200,000.00	\$107,022.00	No		\$200,000.00
2005	Scanning A Card	\$50,000.00	\$45,000.00	No		\$50,000.00
2005	Disaster Recovery Service	\$175,000.00	\$0.00	On Hold	\$175,000.00	\$0.00
2005	Improvements to Computer System II	\$150,000.00	\$0.00	No		\$150,000.00
2005	Conversion of Microfiche-Chicago Title	\$200,000.00	\$0.00	No		\$200,000.00
Total		\$1,113,090.00	\$437,984.67		\$189,449.19	\$923,640.81

1.00 Fee Authorized
 Projects as of November,
 2005

Encumbrances

2006 Outstanding Commitments as of 2/3/2006
Agency 193-General Government Non-Departmental
Organization 1923-Automated Land Information System
\$4.00 Fee

Vendor Name	Description	Amount Encumbered	Outstanding Commitments	Difference Outstanding and Encumbrance
SOUTHEASTERN WI REGIONAL	Comprehensive Digital Flood Hazard Mapping Program	\$ 10,903.16	\$ 10,903.00	\$ (0.16)
SOUTHEASTERN WI REGIONAL	SEWRPC Cadastral Maps	\$ -	\$ 15,000.00	\$ 15,000.00
GEO ANALYTICS INC	GEO ANALYTICS INC	\$ 859.86	\$ 859.86	\$ -
SOUTHEASTERN WI REGIONAL	MCAMLLIS Floodland Mapping Phase 2	\$ 436,000.00	\$ 436,000.00	\$ -
DIGGERS HOTLINE	DIGGERS HOTLINE	\$ 50,000.00	\$ 50,000.00	\$ -
SOUTHEASTERN WI REGIONAL	SEWRPC Water Study	\$ 87,262.00	\$ 87,262.00	\$ -
SOUTHEASTERN WI REGIONAL	County Surveyor3	\$ 77,175.00	\$ 77,175.00	\$ -
SOUTHEASTERN WI REGIONAL	Topographic Mapping Project	\$ 5,000.00	\$ 1,712,015.00	\$ 1,707,015.00
SOUTHEASTERN WI REGIONAL	--	\$ 75,000.00	\$ 75,000.00	\$ -
SOUTHEASTERN WI REGIONAL	--	\$ 60,000.00	\$ 60,000.00	\$ -
	TOTAL*	\$ 802,200.02	\$ 2,524,214.86	\$ 1,722,015.00

*Note: These are encumbrances include 2006 which are not included in this 2005 year-end report